

CLAIMS

1. A fluid control apparatus comprising a plurality of lines (A), (B) arranged in parallel on a base member (1) and having inlets, as well as outlets, facing toward the same direction, each of the lines (A), (B) comprising a plurality of fluid control devices (2), (3), (4), (5), (6), (7), (17), (18), (19) arranged in an upper stage and a plurality of block coupling members (8) arranged in a lower stage,

the fluid control apparatus being characterized in that at least one of the lines (A), (B) is provided on each of opposite sides thereof with a tape heater (11), a space for positioning a tape heater holding clip (13) therein being provided in each of locations between adjacent fluid control devices (2), (3), (4), (5), (6), (7), (17), (18), (19), the tape heaters (11) being held from opposite sides thereof to the line (A, B) by the clip (13), the line (A, B) provided with the heaters being mounted on a line support member (10) removably attached to the base member (1).

2. A fluid control apparatus comprising a plurality of lines (A), (B) arranged in parallel on a base member (1) and having inlets, as well as outlets, facing toward the same direction, each of the lines (A), (B) comprising a plurality of fluid control devices (2), (3), (4), (5), (6), (7), (17), (18), (19) arranged in an upper stage and a plurality of block coupling members (8) arranged in a lower stage,

the fluid control apparatus being characterized in that each of the lines (A), (B) is mounted on a line support member (10) removably attached to the base member (1), the line support member (10) having a heater insertion bore (14) formed therein

and extending longitudinally thereof, a sheath heater (12) being inserted into the bore (14).

3. A fluid control apparatus according to claim 1 wherein the line support member (10) has a heater insertion bore (14) formed therein and extending longitudinally thereof, and a
5 sheath heater (12) is inserted into the bore (14).

4. A fluid control apparatus according to claims 1 to 3 wherein each of the coupling members (8) is slidably mounted on the line support member (10), and each of the fluid control
10 devices (2), (3), (4), (5), (6), (7), (17), (18), (19) is mounted on at least two adjacent coupling members (8).

5. A fluid control apparatus according to claims 1 to 3 which is characterized in that the base member (1) has a plurality of lateral rails (1a) made of a nonmetallic material and extending in a direction orthogonal to the lines (A), (B),
15 the line support member (10) of each of the lines (A), (B) being mounted on the base member (1) slidably in a lateral direction.

6. A fluid control apparatus according to claim 1 wherein the tape heater (11) is held in contact with bodies (17a), (18a),
20 (19a) of the fluid control devices (17), (18), (19) and with the block coupling members (8).